Specifications

Model	HZY-8Z	HZY-15Z
Use	Transfer of biological specimens, etc	Transfer of biological specimens, etc
Type	Active cooling, portable	Active cooling, portable
Internal dimensions (W*D*H mm)	230 * 140 * 170	430 * 150 * 180
External dimensions (W*D*H mm)	320 * 265 * 260	520 * 300 * 270
Loading quantity	1 transport tank	2 transport tanks
Effective volume	6L, 1 built-in specimen seal can	12L, built-in 2 specimen seal cans
Specimen seal can dimension (mm)	H160 * D130	H160 * D130
Tube storage capacity	16 pcs D10 test tubes (small), 2 pcs D15 test tubes (large)	16 pcs D10 test tubes (small), 2 pcs D15 test tubes (large)
Net weight (kg)	3.5	6
Controller	Microprocessor control	Microprocessor control
Temporary storage temperature (°C)	2-6	2-6
Transfer temperature (°C)	2-10	2-10
Holdover time (25°C, no load) (h)	1	1
Holdover time (25°C, full load) (h)	2	2
External material	ABS, high-density EPS foam filling	ABS, high-density EPS foam filling
Internal material	Aluminum plate	Aluminum plate
Door material	ABS, high-density EPS foam filling	ABS, high-density EPS foam filling
Cold storage	PCM ice-pack for cold storage	PCM ice-pack for cold storage
Cooling type	Optimized semiconductor cooling	Optimized semiconductor cooling
Cooling fan	ADDA fan	ADDA fan
Temperature control and display	Microprocessor control, dual sensors for control and display, display accuracy 0.1 °C	
Alarms	Sensor failure alarm, high temperature alarm, power failure alarm	
Warranty	One year on complete machine	

Haier Biomedical
Intelligent Protection of Life Science

Transport Cooler for Infectious Materials

—— Transfer Scheme for 2019-nCoV Specimen

HZY-8Z 15Z

Scope of Application :

Due to the Outbreak of COVID-19, rapid transport of samples became a focus. The virus is a high-risk specimen, and if there is a collision during the transportation or transmission, there will be a risk of leakage and re-infection.

A solution was urgently needed to ensure the viability of the samples and the safety of transport personnel; this is the solution.

Exclusive Advantage

As the leading manufacturer of high-risk specimen transport containers, Haier Biomedical is the only manufacturer who was selected for the Equipment Catalog in China as the transport solution that was urgently needed with the current situation of the out- break of COVID-19.

Qingdao Haier Biomedical Co.,Ltd.

No.280 Feng Yuan Road, High-tech Zone,
Qingdao, 266109, P.R. China
E-mail: inquiry@haierbiomedical.com
Website: www.haiermedical.com

Haier Biomedical International
Haier Biomedical International
@haiermedicalint
Haier Biomedical International
Haier Biomedical International

Product Requirements

Requirements for the transport container of highly pathogenic microorganisms (toxins) or samples (briefing)

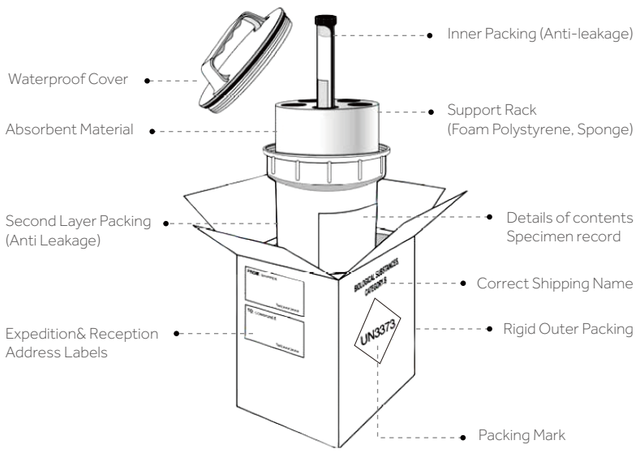
- In the transportation of highly pathogenic microorganisms, it is required to adopt a three-layer packaging system: **the main container, auxiliary container and outer package from the inside to the outside.**
- The highly pathogenic microorganism specimens or samples shall be properly stored in the main container, which shall be sterile, impermeable and leakproof. The main container may be made of glass, metal or plastic and necessarily with a reliable leak-proof seal, such as heat seal, flange stopper or metal coiled-edge seal. Wrapping the main container with enough sample absorbent material to absorb all the samples in case of leakage.
- The auxiliary container is a strong, waterproof and leakproof container which outside the main container. Its function is to package and protect the main container. When multiple primary containers are loaded into a secondary container, they must be wrapped separately to prevent contact with each other and lined with adequate absorption material. Relevant documents (such as sample quantity forms, hazard statements, letters, sample identification information, sender and recipient information) should be placed in a waterproof bag and posted on the outside of the auxiliary container. Auxiliary container must be secured within the outer packing with appropriate liner material to protect itself.
- The main and auxiliary containers shall be kept intact with the temperature at which the refrigerant is used and at the temperature and pressure that may occur after the loss of refrigeration.
  The primary and secondary containers must be able to withstand 95kPa of internal pressure without leakage and be able to withstand damage at temperatures ranging from -40°C to + 55°C.
- The outer packing is a protective layer on the outer surface of the auxiliary container. The outer packing has sufficient strength and shall be affixed with uniform marks on the outer surface as required.

Packaging System

- **Three-layer packaging:**

Main container
Test tube with cap (user configures according to business)

- **Auxiliary container**
  ≥95kPa pressure sealed tank (EPS or EPE bracket for fixing test tube, 16 hole D10 test tube + 2 hole D15 test tube)
- **Outer packaging**
  Transfer box (ice row, foam used to fix sealed container, activated carbon and other adsorbed substances, sample labeling)



Product Advantages

Active semiconductor cooling, energy saving and environment friendly
Active semiconductor cooling, energy saving and environmental protection, built-in cooling function, cooling after power on.

Precise temperature control
Precise temperature control at 2°C ~ 6°C is suitable for the temporary storage of biological products such as serum and blood specimens.

Built-in, 4°C phase change PCM, ice row cooling, long-term insulation after power failure, to ensure the safety of specimen
Under the condition of no load at 25°C, the temperature of the air in the box rises to 10°C + takes 1 hour; under the loading condition of 25°C, the air temperature in the box rises to 10°C + takes 2 hours.

Multiple fault alarms, safer to use
High and low temperature alarm, power failure alarm, sensor failure alarm.

The power supply is equipped with a car power plug, which is convenient for vehicle transport
The power supply can support 12V and 220V conversion, so the container can be put into the car to plug in and transfer.

HZY-8Z

HZY-15Z

Transport Cooler - Auxiliary Container

HZY-8Z (Specimen)

HZY-15Z (Specimen)

Pressure sealed tank (EPS or EPE holder for fixing test tubes, 16-hole D10 test tube + 2-hole D15 test tube)

The pressure-sealed tank remains intact at the temperature of the refrigerant used, as well as the temperature and pressure that may occur after loss of refrigeration. Under the condition of no leakage, it can withstand the internal pressure of 95kPa, and can ensure that it will not be damaged in the temperature range of -40°C to + 55°C.